

WHAT IS CLAIMED IS:

1. A manufacturing method for a rolling guide apparatus, the rolling guide apparatus comprising a first slide member including a pair of wing portions and a connecting portion connecting the wing portions and formed having first raceway grooves on the wing portions, individually, a second slide member combined with the first slide member, movable relatively to the first slide member, and formed having second raceway grooves corresponding in position to the first raceway grooves, individually, and rolling elements held between the first and second raceway grooves,

the manufacturing method comprising:

a process for creating a residual compression stress region on the surface region of the first slide member; and

a process for forming a worked portion on the residual compression stress region on an inner surface or an outer surface of the connecting portion by plastic working or machining, regulating the residual compression stress region by working to deform the connecting portion, and adjusting a pre-load on the rolling elements in accordance with the deformation.

2. A manufacturing method for a rolling guide apparatus according to claim 1, wherein said process for forming the worked portion on the inner surface of the connecting portion is carried out with the first

and second slide members combined with each other.

3. A manufacturing method for a rolling guide
apparatus according to claim 1, wherein said process
for forming the worked portion on the outer surface of
5 the connecting portion is carried out with the first
and second slide members combined with each other.